

Title (en)

Method and apparatus for detecting and counteracting a deformation of the stock discharge gap in a headbox of a paper machine.

Title (de)

Verfahren und Vorrichtung zum Entdecken und Beseitigen einer Verformung des Austrittspalts am Stoffauflaufkasten einer Papiermaschine.

Title (fr)

Procédé et dispositif pour détecter et supprimer une déformation de la fente de sortie dans une caisse de tête d'une machine à papier.

Publication

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Application

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Priority

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Abstract (en)

The invention relates to a method and an apparatus for detecting and counteracting a deformation of the stock discharge gap (6) in a paper machine headbox, which is caused by thermal expansion due to the temperature of the stock and/or the pressure of the stock. This is achieved by ultrasonic transducers (7;9,10; 20-22) located close to the slice opening (6) which obtain measurement results relating to the distance between the roof member (1) and the apron beam member (2) of the headbox. At least two such transducers, one (20) preferably located close to a side wall (23) of the discharge gap (6) and the other (21) preferably located midway between the side walls (23, 24), give information about a possible difference between the measurement results caused by the deformation. This difference serves as a guide for adjusting the temperature of the apron beam member (2) and/or the roof member (1), in such a way that the deformation is reduced in magnitude or entirely eliminated.

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IPC 8 full level

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CPC (source: EP US)

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Cited by

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